

1/12

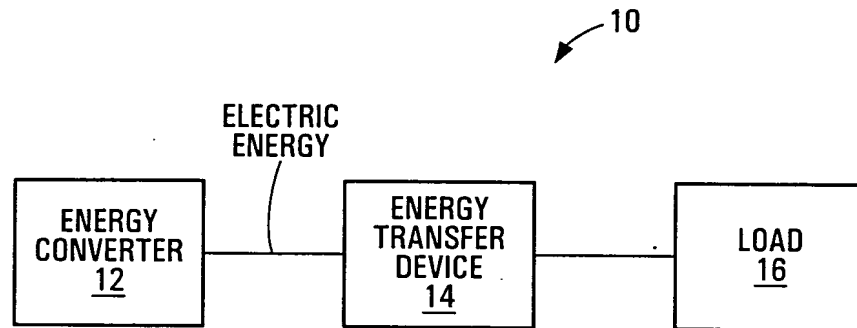


FIG. 1

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P-V CHARACTERISTICS OF A PHOTOVOLTAIC CELL
ARRAY FOR VARIOUS VALUES OF IRRADIANCE S AT A
TEMPERATURE OF 25°C

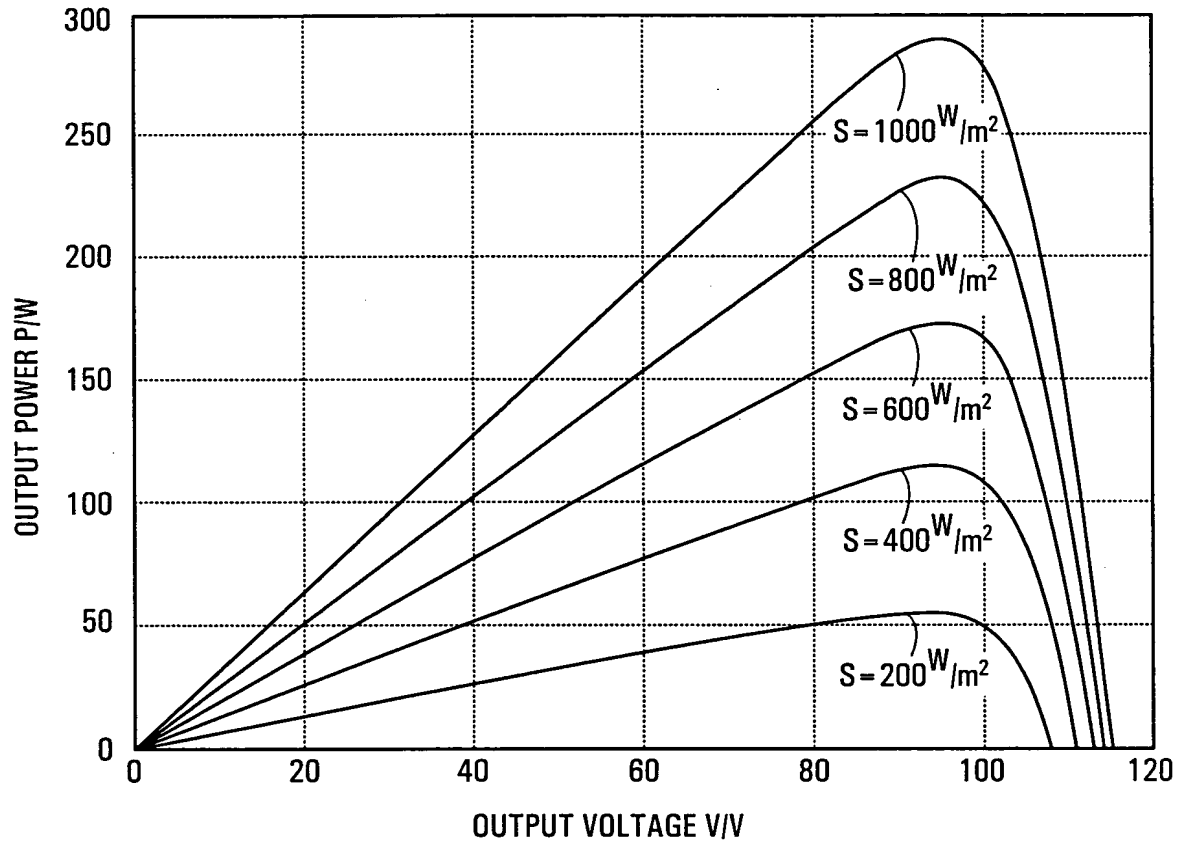


FIG. 2

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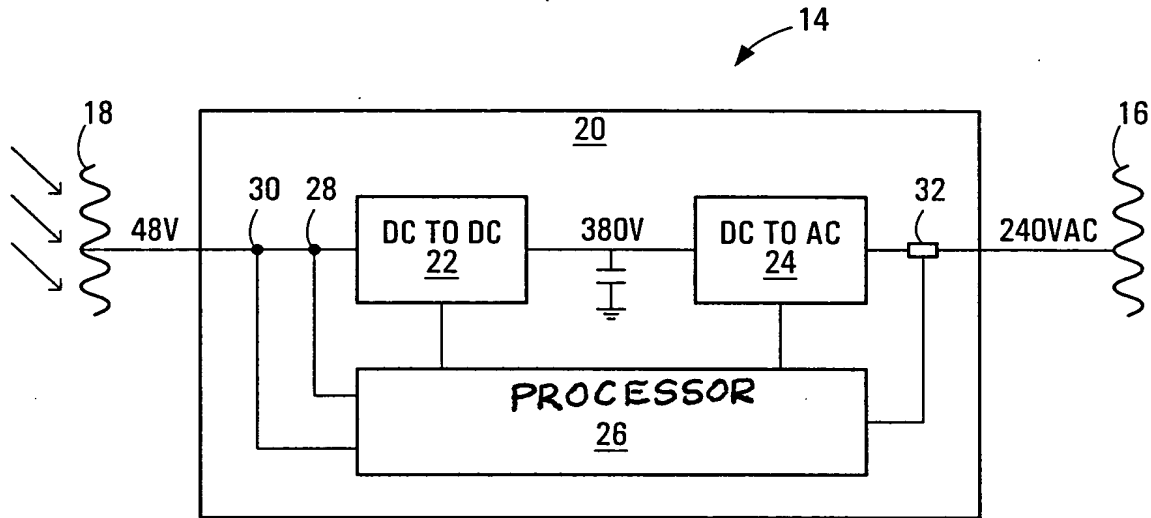


FIG. 3

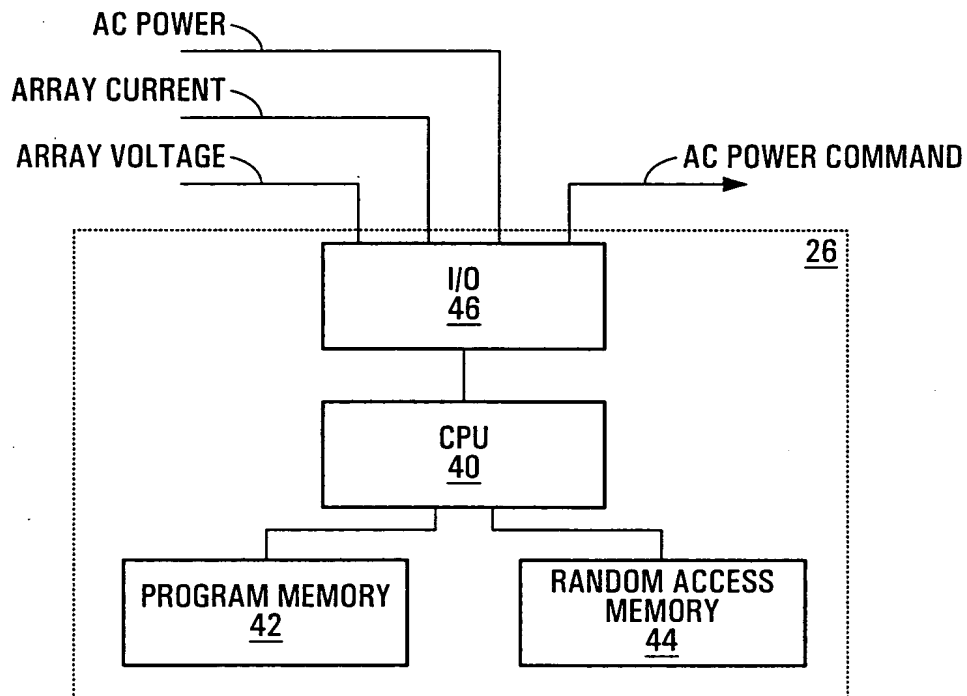


FIG. 4

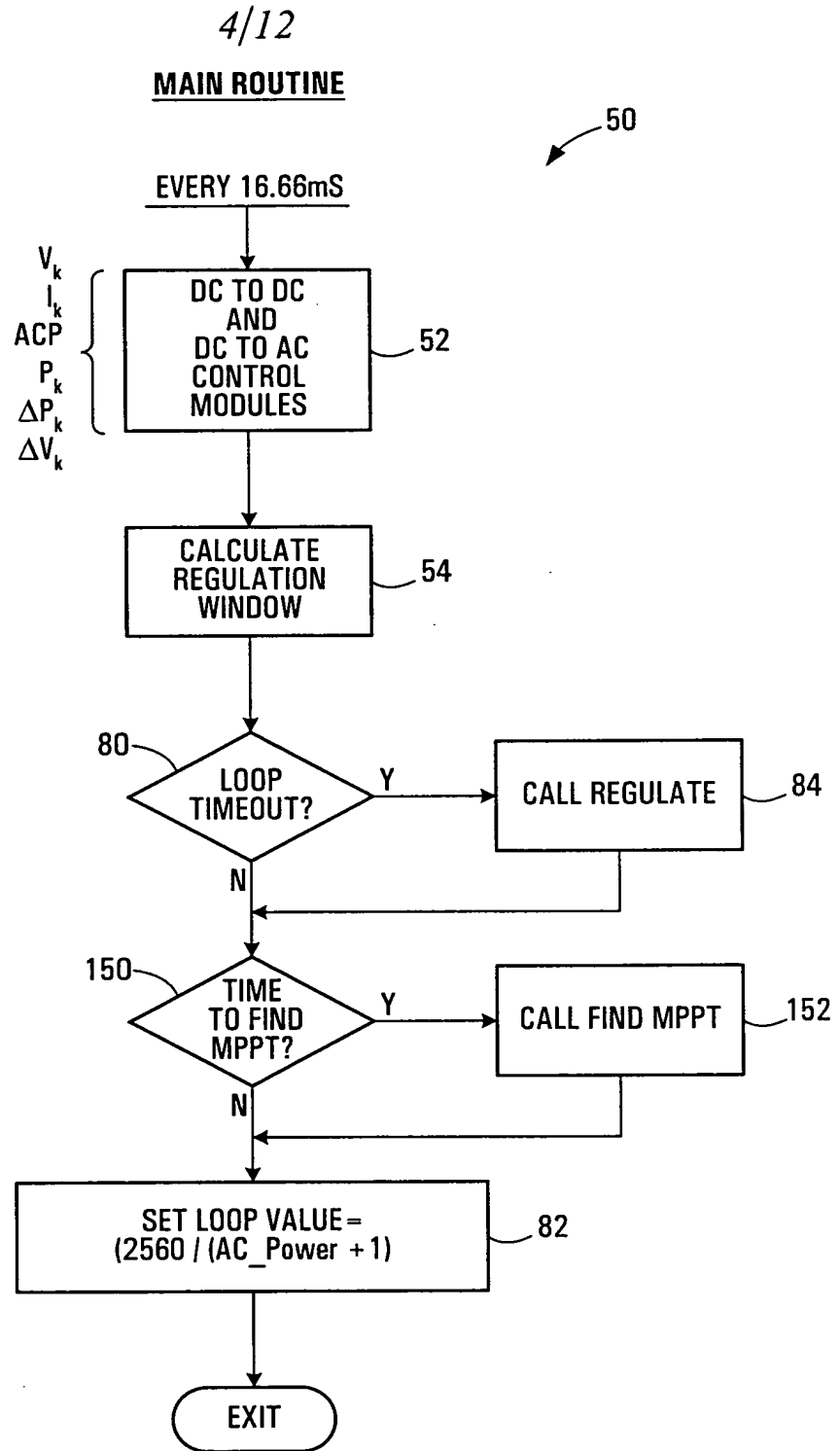


FIG. 5

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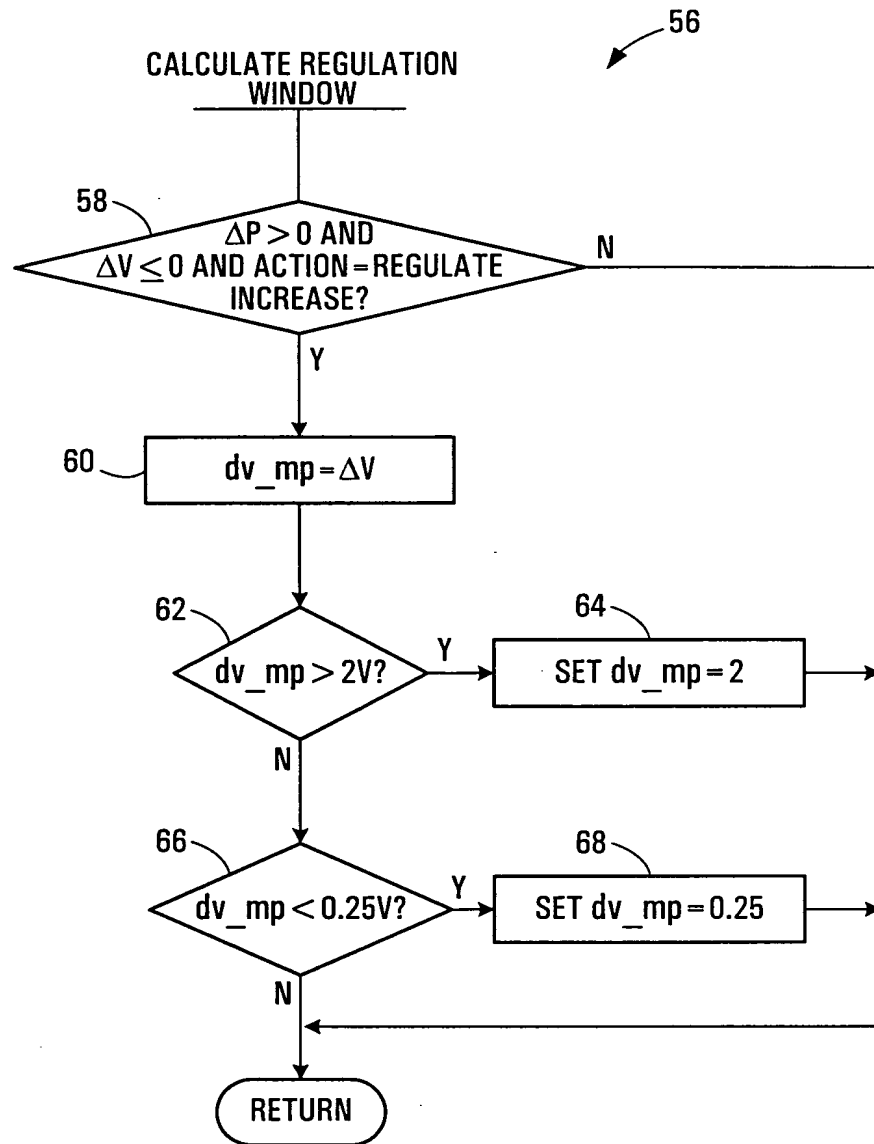


FIG. 6

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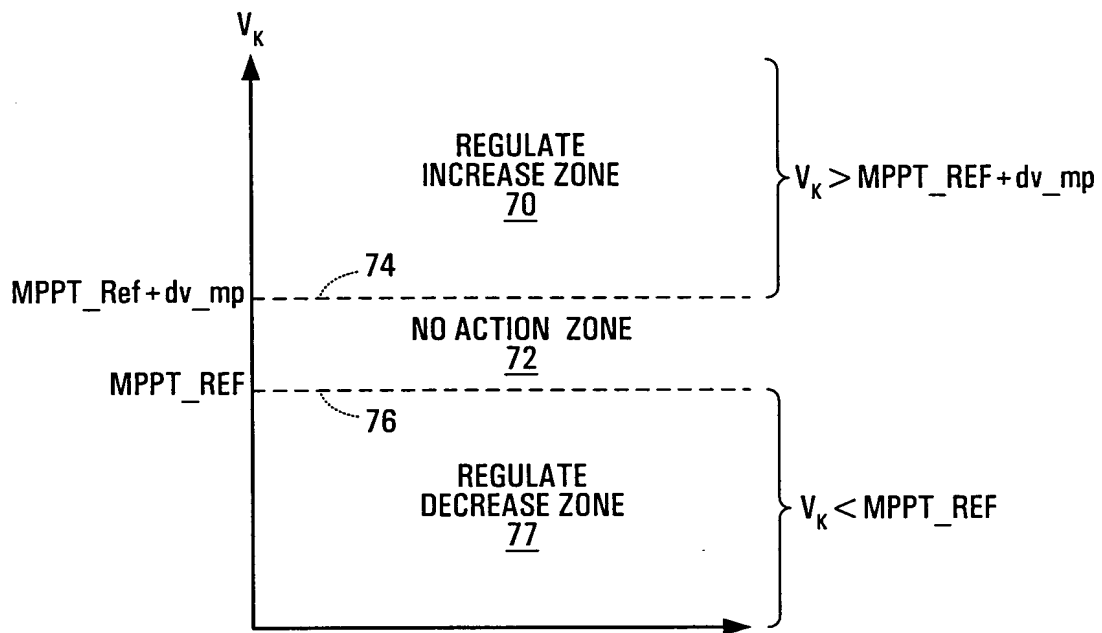


FIG. 7

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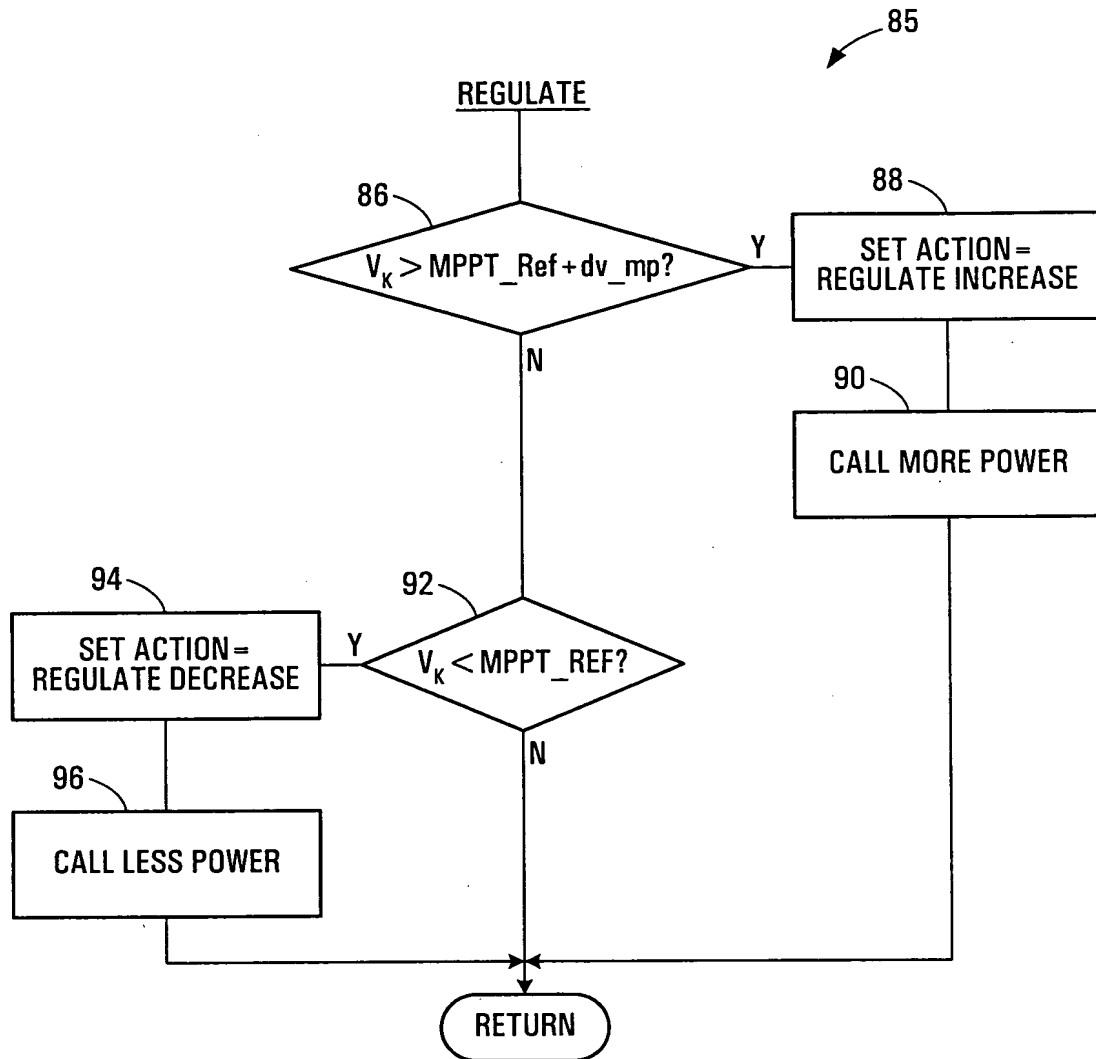


FIG. 8

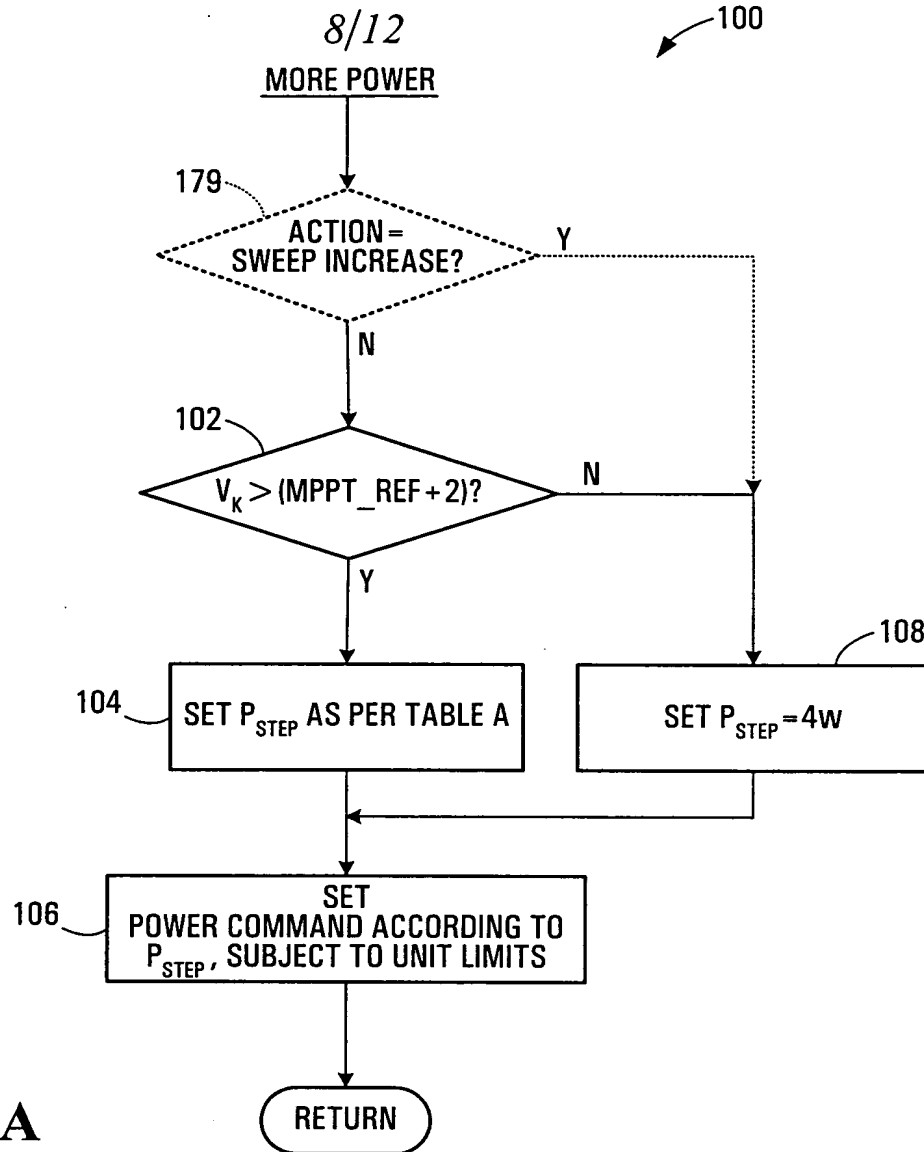


FIG. 9A

TABLE A

AC POWER	P_{STEP} (WATTS)
$0 \leq ACP < 40$	4
$40 \leq ACP < 100$	8
$100 \leq ACP < 200$	12
$200 \leq ACP < 400$	16
$400 \leq ACP < 800$	20
$800 \leq ACP < P_{ACMAX}$	24

FIG. 9B

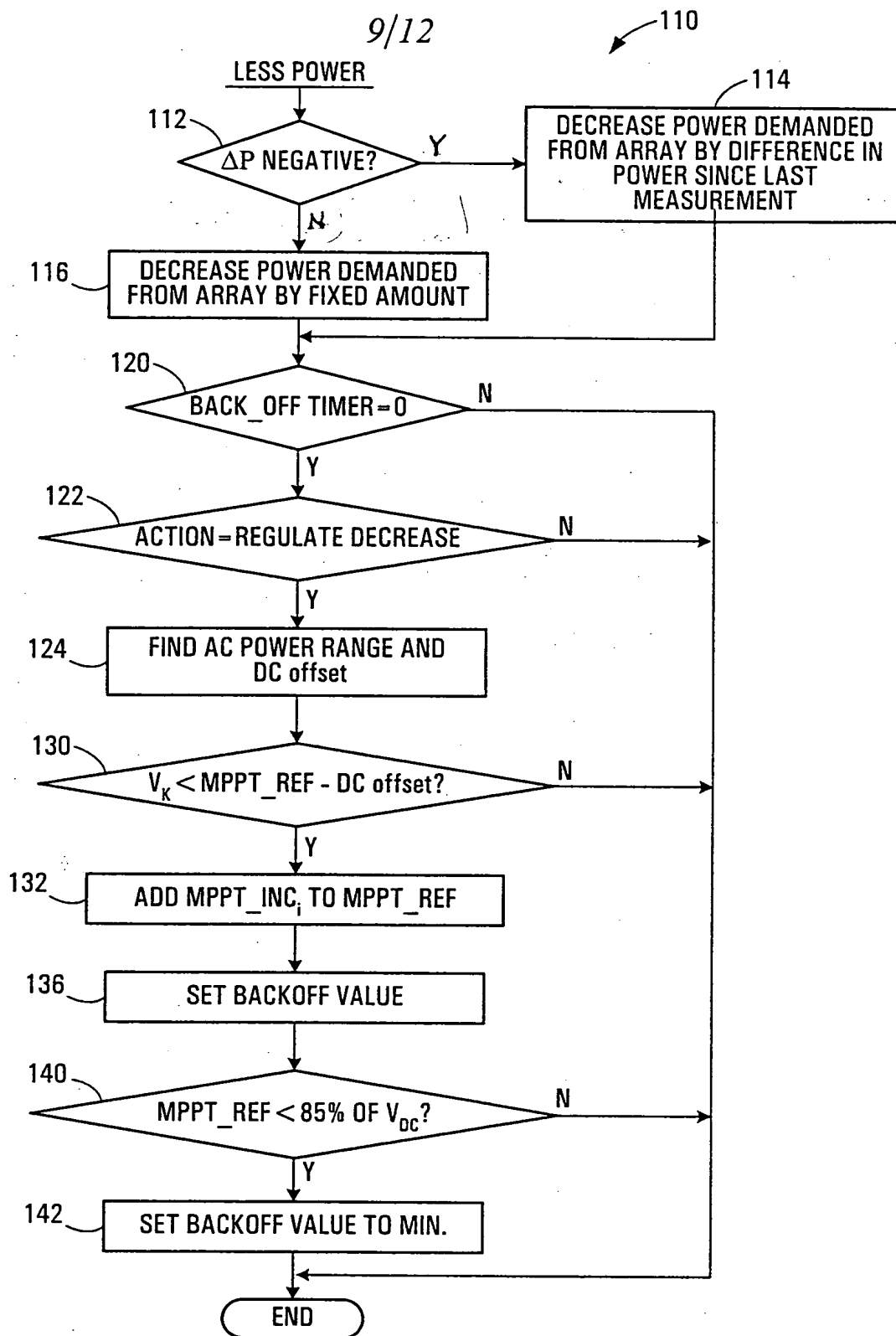


FIG. 10A

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TABLE B

ACP	DCoff _i	MPPT_INC _i	BACKoff _i
$1024 < ACP \leq P_{MAX}$	0.25	0.25	240
$512 < ACP \leq 1024$	0.5	0.5	480
$256 < ACP \leq 512$	1.0	1.0	480
$128 < ACP \leq 256$	1.5	1.0	480
$96 < ACP \leq 128$	2.0	1.0	480
$0 < ACP \leq 96$	4.0	1.0	480

128 126 134 138

FIG. 10B

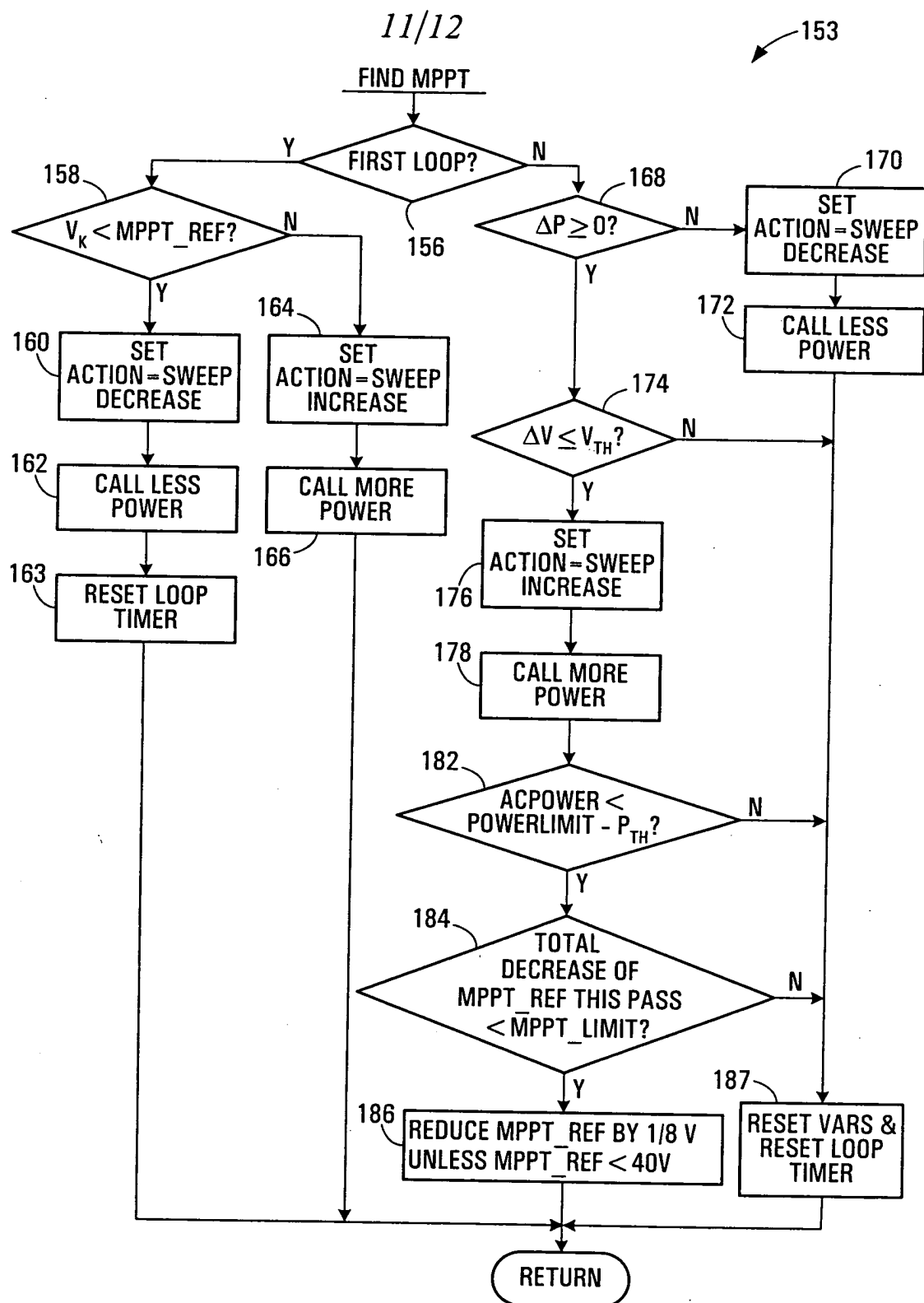


FIG. 11A

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TABLE C

AC POWER	MPPT_LIMIT
$1024 \leq \text{AC POWER}$	0.25
$512 \leq \text{AC POWER} < 1024$	0.5
$0 \leq \text{AC POWER} < 512$	1.0

FIG. 11B